



520.38161CX2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): K. ARUGA

Serial No.: 10/615,907

Filed: July 10, 2003

For: DISK SUBSYSTEM

Group: 2187

Examiner: G. Portka

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

September 3, 2004

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the document listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR §1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the document.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus Deposit Account No. 01-2135 (520.38161CX2) please credit any excess fees to such deposit account.

Respectfully submitted,



Carl I. Brundidge
Registration No. 29,621
ANTONELLI, TERRY, STOUT & KRAUS, LLP

CIB/jdc
(703) 312-6600

FORM PTO-1449 U.S. Department of
Commerce (Rev. 4/92) Patent and Trademark
Office

ATTY. DOCKET NO.

SERIAL NO.

520.38161CX2

10/615,907

APPLICANT
K. ARUGAFILING DATE
July 10, 2003GROUP
2187

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6	7	1	5	0	3	4		03/04	Kleiman et al			
	5	2	5	7	3	9	1		10/93	DuLac et al			
	4	9	8	4	2	7	2		1/91	McIlroy et al			
	4	9	3	7	7	6	3		6/90	Mott			
	4	8	2	5	3	5	4		4/89	Agrawal et al			
	5	0	6	7	0	9	9		11/91	McCown et al			
	5	1	1	3	4	4	2		5/92	Moir			
	5	1	4	4	6	5	9		9/92	Jones			
	5	2	0	2	9	8	3		4/93	Orita et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO
	5	1	9	7	4	9	5		8/93	Japan			XX	
	0	2	4	4	8	6	2		6/02	PCT				
	0	1	4	3	3	6	8		6/01	PCT				
	0	5	3	7	0	9	8		1/99	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	IBM, "Fibre Channel Standard Hub-Loop Redundancy for Higher RAS", IBM Technical Disclosure Bulletin, vol. 37, No. 4A, Apr. 1, 1994, pp. 383-385.
	Kembel "In-Depth Fibre Channel Arbitrated Loop", Fibre Channel Consultant, Northwest Learning Associates, April 1997, pp. 7, 16-20.
	Nass, "Connect Disk Arrays to EISA or PCI Buses", Electronic Design, vol. 41, No. 23, Nov. 11, 1993, 152-154.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	520.38161CX2	10/615,907
	APPLICANT K. ARUGA	
	FILING DATE July 10, 2003	GROUP 2187

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 2 2 2 2 1 7	6/93	Blount et al			
	5 2 5 7 3 9 1	10/93	DuLac et al			
	5 2 8 3 8 3 0	2/94	Hinsley et al			
	5 5 7 2 7 1 1	11/96	Hirsch et al			
	5 6 1 7 5 6 8	4/97	Ault et al			
	5 6 6 8 9 5 8	9/97	Bendert et al			
	5 6 7 5 7 8 2	10/97	Montague et al			
	5 6 8 9 7 0 1	11/97	Ault et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Sebring Systems, "Sebring Rings in Networking", Sebring Systems, Inc. Aug. 9, 1999, pp. 1-14.
	Sebring System, "Sebring Theory of Ring Operation (STROP)", Sebring Systems, Inc., Sept. 9, 1999, pp. 1-66.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	520.38161CX2	10/615,907
	APPLICANT K. ARUGA	
	FILING DATE July 10, 2003	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5	7	3	7	5	2	3		4/98	Callaghan et al			
	5	7	6	1	6	6	9		6/98	Montague et al			
	5	8	1	9	2	9	2		10/98	Hitz et al			
	5	8	2	5	8	7	7		10/98	Dan et al			
	5	8	4	1	9	9	7		11/98	Bleiweiss et al			
	5	8	5	4	9	0	3		12/98	Morrison et al			
	5	8	7	6	2	7	8		3/99	Cheng			
	5	8	9	0	9	5	9		4/99	Pettit et al			
	5	9	1	5	0	8	7		6/99	Hammond et al			
	5	9	3	1	9	3	5		8/99	Cabrera et al			
	5	9	6	3	9	6	2		10/99	Hitz et al			
	6	0	9	8	1	5	5		8/00	Chong, Jr.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])